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L1: Entry 1 of 1

File: USPT

Sep 5, 2000

US-PAT-NO: [6115656](#)

DOCUMENT-IDENTIFIER: US 6115656 A

TITLE: Fault recording and reporting method

DATE-ISSUED: September 5, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sudolsky; Michael D.	Huntington Beach	CA		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
McDonnell Douglas Corporation	Huntington Beach	CA			02	

APPL-NO: 09/ 248509 [\[PALM\]](#)

DATE FILED: February 10, 1999

## PARENT-CASE:

CROSS REFERENCE TO RELATED APPLICATIONS This application is a continuation-in-part of U.S. application Ser. No. 08/877,219, filed Jun. 17, 1997, now abandoned.

INT-CL: [07] [G01 M 17/00](#)

US-CL-ISSUED: 701/35; 701/36, 701/3

US-CL-CURRENT: [701/35](#); [701/3](#), [701/36](#)

FIELD-OF-SEARCH: 701/35, 701/36, 701/14, 701/29, 701/3, 340/500, 340/525, 340/507

## PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

[Search Selected](#)[Search ALL](#)[Clear](#)

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<a href="#">4604711</a>	August 1986	Benn et al.	364/900
<input type="checkbox"/>	<a href="#">4635030</a>	January 1987	Rauch	340/52
<input type="checkbox"/>	<a href="#">4729102</a>	March 1988	Miller, Jr. et al.	364/424
<input type="checkbox"/>	<a href="#">4757454</a>	July 1988	Hisatake et al.	364/424
<input type="checkbox"/>	<a href="#">4788531</a>	November 1988	Corwin et al.	340/945

<input type="checkbox"/>	<u>4943919</u>	July 1990	Aslin et al.	701/29
<input type="checkbox"/>	<u>5019980</u>	May 1991	Starr et al.	364/424.04
<input type="checkbox"/>	<u>5023791</u>	June 1991	Herzberg et al.	701/35
<input type="checkbox"/>	<u>5218547</u>	June 1993	Tebbs	364/424.06
<input type="checkbox"/>	<u>5239468</u>	August 1993	Sewersky et al.	364/424.03
<input type="checkbox"/>	<u>5267147</u>	November 1993	Harshaw et al.	364/401
<input type="checkbox"/>	<u>5386363</u>	January 1995	Haak et al.	364/424.01
<input type="checkbox"/>	<u>5442553</u>	August 1995	Parrillo	364/424.04
<input type="checkbox"/>	<u>5459660</u>	October 1995	Berra	364/424.03
<input type="checkbox"/>	<u>5500797</u>	March 1996	Noger	364/424.04
<input type="checkbox"/>	<u>5541863</u>	July 1996	Magor et al.	364/580
<input type="checkbox"/>	<u>5552984</u>	September 1996	Crandall et al.	364/424.03
<input type="checkbox"/>	<u>5581462</u>	December 1996	Rogers	364/424.012
<input type="checkbox"/>	<u>5717595</u>	February 1998	Cherrington et al.	364/467.1
<input type="checkbox"/>	<u>5729452</u>	March 1998	Smith et al.	364/424.03
<input type="checkbox"/>	<u>5758300</u>	May 1998	Abe	701/33

ART-UNIT: 361

PRIMARY-EXAMINER: Cuchlinski, Jr.; William A.

ASSISTANT-EXAMINER: Donnelly; Arthur D.

ATTY-AGENT-FIRM: Harness Dickey & Pierce P.L.C.

ABSTRACT:

A method for recording and reporting fault information pertaining to various components of an aircraft. The method involves recording a diverse plurality of information output from various line replaceable units (LRU's) and other components of the aircraft during takeoff, flight and landing through the use of a bulk storage device, such as an optical quick access recorder (OQAR), on an electronic medium. The electronic medium is then removed from the aircraft after landing and read by an appropriate apparatus. From this information a service technician is able to determine whether or not a fault indication recorded during flight is in fact a legitimate fault requiring the affected LRU to be removed from the aircraft for further diagnostic testing. The method significantly reduces the incidents of no-fault-found diagnostic test results and saves significant man hours which would otherwise be spent testing LRU's and other components which are in fact operating properly. Alternative embodiments of the method disclose making all information from the LRUs available and using multiple overlays to systematically reduce the data to

be recorded when the data proves to be too voluminous to record. The prioritizing of information is also disclosed so that LRU data of lesser importance is eliminated from consideration before more important information. The preferred methods minimize on aircraft data interpretation rendering unnecessary on-board maintenance processors and technicians for LRU troubleshooting.

13 Claims, 9 Drawing figures

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☐ 1. Document ID: US 20030109973 A1

L3: Entry 1 of 1

File: PGPB

Jun 12, 2003

PGPUB-DOCUMENT-NUMBER: 20030109973

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030109973 A1

TITLE: Electronic operations and maintenance log and system for an aircraft

PUBLICATION-DATE: June 12, 2003

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY	RULE-47
Hensey, Bernard	Dublin		IE	
Hardgrave, Stephen	Dublin		IE	
Brennan, Jonathan	Co. Clare		IE	

US-CL-CURRENT: 701/35; 701/29

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw D
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L2: Entry 1 of 1

File: PGPB

Jan 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030003872  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030003872 A1

TITLE: Methods and apparatus for wireless upload and download of aircraft data

PUBLICATION-DATE: January 2, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brinkley, Roger R.	Woodinville	WA	US	
Mitchell, Timothy M.	Seattle	WA	US	
Price, Jerry L.	Sammamish	WA	US	
Lee, David R.	Renton	WA	US	

APPL-NO: 10/ 075083 [PALM]  
DATE FILED: February 12, 2002

## RELATED-US-APPL-DATA:

Application is a non-provisional-of-provisional application 60/268085, filed February 13, 2001,

INT-CL: [07] H04 B 7/00, H04 Q 7/20, G08 B 21/00

US-CL-PUBLISHED: 455/66; 455/431, 340/945

US-CL-CURRENT: 455/66.1; 340/945, 455/431

REPRESENTATIVE-FIGURES: 1

## ABSTRACT:

A method for wirelessly communicating data between a plurality of avionics units on an aircraft and a data communication apparatus. The method includes wirelessly communicating download data for one avionics unit from the data communication apparatus from an aircraft data services link in the aircraft; electronically switching a communication path from the aircraft data services link to the avionics unit responsive to the download data; and electronically communicating the download data from the data communication apparatus to the avionics unit via the electronically switched communication path.

## CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application claims the benefit of U.S. Provisional application Ser. No. 60/268,085, filed Feb. 13, 2001, which is hereby incorporated by reference in its entirety. This application is also related to a commonly-assigned U.S. Patent

Application of the same inventors entitled "METHOD AND APPARATUS FOR REMOTE INITIATION OF ARINC 615 DOWNLOADS", Attorney Docket No. 7784-000338, filed on even date herewith, which is also incorporated by reference in its entirety.

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